

## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	10/62/9/13
Source:	1 / IFWO
Date Processed by STIC:	8/20/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER

VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND

TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<a href="http://www.uspto.gov/ebc/efs/downloads/documents.htm">http://www.uspto.gov/ebc/efs/downloads/documents.htm</a>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box-1450, Alexandria, VA 22313-1450
- 3. Hand Garry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04): U.S. Patent and Trademark Office, 220 20<sup>th</sup> Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

## Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 10/621,91/
ATTN: NEW RULES CASES:	PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
IWrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3 Misåligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; where the codes between numbers are the codes between numbers.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6Patentin 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
(OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8 Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing.  Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13 Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid

AMC - Biotechnology Systems Branch - 09/09/2003



**IFWO** 

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/621,911

DATE: 08/20/2004

TIME: 11:03:31

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\08202004\J621911.raw

3 <110 > APPLICANT: SAITOU, Mitinori

SURANI, Azim

6 <120> TITLE OF INVENTION: Genes

8 <130> FILE REFERENCE: 674558-2002

10 <140> CURRENT APPLICATION NUMBER: 10/621,911

11 <141> CURRENT FILING DATE: 2003-07-17

13 <150> PRIOR APPLICATION NUMBER: PCT/GB02/00215

14 <151> PRIOR FILING DATE: 2002-01-18

16 <150> PRIOR APPLICATION NUMBER: GB 0101300.2

17 <151> PRIOR FILING DATE: 2001-01-18

19 <160> NUMBER OF SEQ ID NOS: 26

21 <170> SOFTWARE: SeqWin99, version 1.02

Important see den 4
on Enor
Summany
Does Not Company
Steet

## ERRORED SEQUENCES

95 <210> SEQ ID NO: 4

96 <211> LENGTH: 150

97 <212> TYPE: PRT

98 <213> ORGANISM: Mus musculus

100 <400> SEQUENCE: 4

101 Met Glu Glu Pro Ser Glu Lys Val Asp Pro Met Lys Asp Pro Glu Thr

10

104 Pro Gln Lys Lys Asp Glu Glu Asp Ala Leu Asp Asp Thr Asp Val Leu

107 Gln Pro Glu Thr Leu Val Lys Val Met Lys Lys Leu Thr Leu Asn Pro

40

110 Gly Val Lys Arg Ser Ala Arg Arg Arg Ser Leu Arg Asn Arg Ile Ala

55

113 Ala Val Pro Val Glu Asn Lys Ser Glu Lys Ile Arg Arg Glu Val Gln 70 \_ 75

116 Ser Ala Phe Pro Lys Arg Arg Val Arg Thr Leu Leu Ser Val Leu Lys

90

119 Asp Pro Ile Ala Lys Met Arg Arg Leu Val Arg Ile Glu Gln Arg Gln

105 120

122 Lys Arg Leu Glu Gly Asn Glu Phe Glu Arg Asp Ser Glu Pro Phe Arg

120 115

125 Cys Leu Cys Thr Phe Cys His Tyr Gln Arg Trp Asp Pro Ser Glu Asn

Lys Asn 150 150 mesalgred areis and numbers - see them 3 on Euro Furnary Steet 128 Ala Lys Ile Gly Lys Asn E--> 129 145

253 <210> SEQ ID NO: 7

254 <211> LENGTH: 7656

8/20/04

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/621,911

DATE: 08/20/2004 TIME: 11:03:31

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\08202004\J621911.raw

255	<212> TYPE:	DNA		alf			
256	<213> ORGAN	NISM: Rattus	s sp	24			
	<400> SEQUE		-	V			
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	gatccctcca						
	atgctggaga						
	tcttccagag						
	ctccagaggg						
	gtagttcatc						
265	caatgccccc	acagcagaag	gggggagctg	gagagatggt	tcatctgtta	gcccatttat	420
	tgctcttgaa						
267	gttccaggag	atccaatgcc	ctgttgtgac	ctcaggtacc	aggcatacac	aatgaacctg	540
	cacacataca						
	tgttctctgc						
270	gacaagatct	cactatgtag	ttcacactgg	cttccgactt	gccaccatcc	tcctgcctct	720
271	gcctataaag	aatgctagga	ttatataggt	acaaaatcac	acctggctgt	taaggttttt	780
272	ctggctgttt	tttttttcac	ccccatgaat	gattttgaaa	atagttgagc	tgtttacatt	840
273	aataaaacaa	aatcagatgg	agactatatg	tcattattca	tgaatcaaat	gactagtaac	900
274	aatactgagt	tatttttata	gcttttctat	ttttgtttta	aattttattt	tttccttttt	960
	tttttttc						
276	tgggtgatct	ggaacttact	aggtaaacaa	ggatagcctt	aaactcaaga	aatttgcttg	1080
277	cctctgtctc	cagagtgctg	cagttaaagt	tgtacaccgc	catgtttagg	tgtttttatt	1140
	agtgtgtgtg						
	cgcatgcttg						
	gggcaggaga						
	acctaacact						
	tatgactatg						
	cctggcagag						
	tcatggtgac						
	tcatggtgac						
	attcttgcca						
	aagcagatca						
	ttcaaaatga						
	gcagctgaca						
	aatacaaaca						
	atcataacat						
	ataagtacac						
	tggttgtgag						
	agcactcttt						
295	gggccttgtg	cttgctaggc	aagcgctcta	ccactgagct	aaatccccaa	ccccagcca	2220
296	gtgctcttaa	ctgctgagcc	atcttcccag	ccccaacatc	aatttttggt	ctagatgttt	2280
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302	agaaactcta	actaagatag	attggtatta	gaagtagaat	attgctgtaa	cagaccctaa	2640
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304	agccattggg	tacttagagc	ttaatgggct	gttctgtgga	gcttggaaag	gtgctggaga	2760

RAW SEQUENCE LISTING DATE: 08/20/2004
PATENT APPLICATION: US/10/621,911 TIME: 11:03:31

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\08202004\J621911.raw

305 aatqcqqatg atacttgtaa agtttgagag cacctcaaag atgttcagga cagtgtgtgc 2820 306 aatacatttg agttaagaat ctatggtgtc tggtcagctg gagctgaaga ttcagctgtg 2880 307 attaataaga ccactaaagt aaaacttttg ctttactggt acaatcagtg ctggttagct 2940 308 aagggttgac agatgagcag tgactaataa gagactggca tcagaaactg atccagagag 3000 309 agccaaggct gcatctcaaa ctggcagcca aatttgatca catgtaagaa tctccctcat 3060 310 gggggttggg gatttagete agtggtagag egettgeeta ggaageacaa ggteetgggt 3120 312 gttacaggct ttggtggcat gagagcttta gggttgaagg atcatggaga gcagccgagg 3240 313 etecquacca tqtqqqqqqq caqaggtaca geccagttac cacagagaca ccagcatatt 3300 314 tqqaqqtqcc aqqatcatqq ataattgcct aagacaggag gctggcctga ctttgtagga 3360 315 caageteeat gatetgtttg geaggaetgg agaaacagag etgtaaggga aaatgaggae 3420 316 acaqctqttc caagatatga ttggagagaa gggtttcatt gcagatctga ggaagaggac 3480 317 aqccaqaqaq gcatctggaa gggtccagat tgaactgggt catgagagga gagagggcta 3540 318 aqaqqaccaa aagaqcctgt gaccaaatta tcagggttat agagaaaaca gatgcttggg 3600 319 aaagagaagg gggagcccct gagctggaga gatttaaagt agggggcagg atgagaagtg 3660 320 gctggggcag gatgagaagt gctgaggagc caaaggcact cagtgaacct agaggccaag 3720 321 gatacatttt gacatgctaa taggcatttt agtcatttgt cctgcatttc tttaggacag 3780 322 gecaagetge etgggteatt gtgagteeca gataattete ttgaaataaa atgtttttta 3840 323 aagagaggag gggaaggttg gggagggtgg tctgaagtta agagactttg gagtattaag 3900 324 acattggata ttttagagaa aattttgaac ttttaagaag actgaccttt taaagtgttt 3960 325 gaatttttaa agaccaggat acatcagggt gtagggacac atgaccctgt ctcgccccc 4020 326 ccccccaaaa ttataatttt tttaaaaaga ctgtgggagc tgggtggtgg tataggcctt 4080 327 taateetaqe acceaqqaqq cagaageagg cagatetetg agtttgagae cageetgate 4140 328 tatagcatga tttccaggac aatcaaggct acacagtgaa gcctatctta gaaaaaaaaa 4200 329 gattgtagtt ttagtttgcg atgtatttta tattgaggtg ctgacattaa tatgaaatct 4260 330 ttgtgagtgg gcaagaaaat aaagactaaa gctgaatact gatgccactt gtgtgtcaga 4320 331 ttgacaaggg gttttggaat ttttttattt ttttatttt ttttaggaat atatcaacca 4380 332 attgtttatt acacagcatg aacaaacaca aaaatcaagc cttttccaga tcttgctgac 4440 333 aagcctatgg tgtcaaaact cggaaacgag aggcaggacc aggagttaaa agaccagcga 4500 334 ggcctcatgg agaccttgtc tcaagcagaa ataaacaggg ttggtagcac acacgaactc 4560 335 tgaacatcac gagtgtgcac atacccacac atgcacctgt aaaaacaaat cccccatctc 4620 336 caatgtctcg ttctaatctg ttcttgtatt tattaaagat aacaaatttg cctttattac 4680 337 aaatttetet geaaactaga aaatetgaaa gatetattee aattaeette taaateaaae 4740 338 taccaqqctt tqactcatqc tcaattcttg ggtaaatttg tcattcgcat gaatccaaat 4800 339 gtcacacatc ctatataatt taaaggttaa caagtagaag agatgtccct agcaccaaga 4860 340 aaagtttaat ettaacagaa aacagettte acatetgetg tgtggcacet ttaacggcaa 4920 341 ggacggcgta caattcgaac tgccctaatt cttctggttc tgcccgattt tagcattctc 4980 342 agacqqatcc catctctgat aatggcagaa agtgcagaga catctaaatg gctcatctct 5040 343 gttctcattt ccttcaagct gtctttgtct ctgctcaatc cgaacaaatc ttctcatcct 5100 344 tgctacaggt tctttcagca ccgacgacaa caatgtgtgg acccttctct tgggaaaggc 5160 345 gctttgaact tccctcatga ttctttcact tctgttctcc acaggctggt tctgaacccg 5220 346 gtgacgaagg ctgtgatgac gatgatattt tggccacttg gcactggggt tcagggttag 5280 347 ctttttcatg acctttacta gtgtttctgg ttgtagggtt tctgaatcat tggggtgagt 5340 348 cctctccacc tttcctctga gatctatcat ctgagtttct ggatacacaa ctgggtcaac 5400 349 tttctgtgat ggctcgtcca tggcggtggg cagaagcctc aaaagccagc tccgaacaaa 5460 350 attgctagct aatctttgga aagacctaga ctttggcccc aactagcaga ctgaagtgct 5520 351 ggaatttttt ttttttttt tttttttt tgtaatcaac ttgaaaacac aattgagaaa 5580 352 atgetteeat aaggttaaat eettgtgeea eeatgeetgg acetaagett tteatggeea 5640 353 ctattcctcg aggtctggat cagaagcttg tgtatttcat ttccggattg tcgttcactc 5700 RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/621,911

DATE: 08/20/2004 TIME: 11:03:31

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\08202004\J621911.raw

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354 cagattaaaa gtccaaatga aagcaatagc catgtaataa tgcctagata taactcttcc 5760
    355 ttgttcagca gcaaatgcat aagcaataag cttagctggg tgggatcttc caaagctact 5820
    356 ctgctctttt tcttcttgga cataggattc agcaacattc tacttcttga tgccccttta 5880
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    359 ctcttccaga ggtcctgaat tcaattccta gcaaccacat ggtagctcat aaccatctgt 6060
    360 aataggatet gatgeeetet titggtgtgt etgaagaaga eageaacagt aeteaacata 6120
    361 cataaaataa aaataaatca acatacataa aataaaaata atttttaaaa aaaaaaggtg 6180
    362 aaatttaacc acacaacaga atttatgcca ggcttgtttg agacttttgt caaagcaatt 6240
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     366 ttcctacgat gatagccctt taagccccac ttaaagcatt tcactgaatt ccaaatctaa 6480
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     372 ccgccgagcc attttctcca gtcccaaaga aacacttata aaggacaatg ttttttttgg 6840
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     374 accagaagag ggcatcagat cttactatag atggttgtga accaccatgt ggttgctggg 6960
     375 gattgaactc aggacctctg gaagagcagt cagtgctctt aaccccttag ccatctctcc 7020
     376 agttctaaag gacaatgttt aatcggggct ggctcacagg ttcagaggtt cagtccatta 7080
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                                                                                     Sell
enor
Maratin
on
     379 gctaagagga aggteteaaa geecaeeeta eagtggeatg tteteeaaea aggeeaeate 7260
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E--> 383 tttgttccac aactctccca gtttctttgt naaacacca atgcctagag agatgctctt 7500
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     393 <400> SEQUENCE: 8
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     396 gggggaggc atggaaagaa aggcgggggg gggagataac atgcggggga agtaagaggg 180
     397 ggggggtaag gagggtacag gtagcacagg tggggggaag agaggggagg gggggaatgg 240
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PATENT APPLICATION: US/10/621,911

DATE: 08/20/2004 TIME: 11:03:31

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\08202004\J621911.raw

	430	c 2161	•		ſ			
>			aacanttaaa	aagatagaaa	taatgttagt	gnn)tchcatc	gagcaagagt	2160
	428	tccattgtgg	ctctctctc	tctgataact	ctagcttgtg	tcaaattgac	aaccaaccag	2100
							aggcgttttc	
	426	ctcggacccc	ttgcctaggg	ttggcaccac	ccacaatggg	ctgagccttc	ccatgtcaat	1980
	425	tgaaagcgct	gcttcctgac	tcgctcccca	caaattggtc	cctgagcctt	cttgtccacc	1920
	424	gacaggaact	caagtcagga	ccgtggaagt	aggtagcatc	tgaagcagag	acttctggga	1860
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	420	ccaaagaatt	gagaaggagt	caaagcattc	tgtgaatttt	tgaagcctca	agcccggggc	1620
	419	taacctttaa	attatatagg	gtgcgtgatg	tttggattca	tgtgaatgac	ttaaatttac	1560
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	417	ttaggacagc	ttagattgta	cactgtcctt	gtgttaatga	tgccatgcag	cagacctgaa	1440
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							ttcagactca	
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	413	acagaagtga	aagaatttcg	agggaagttc	aaagcgcttt	acccaagaga	agggtccgca	1200
	412	ccaagcggtc	agcacatcgt	cgcagcctcc	gtctccggat	tcagagaaga	cctgtggaga	1140
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VARIABLE LOCATION SUMMARY

DATE: 08/20/2004 TIME: 11:03:32

PATENT APPLICATION: US/10/621,911

**521,911** TIME: 13

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\08202004\J621911.raw

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in  $<\!220\!>$  to  $<\!223\!>$  section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:7; N Pos. 7471,7554,7608

Seq#:8; N Pos. 2115,2142,2143,2146

VERIFICATION SUMMARY

DATE: 08/20/2004

PATENT APPLICATION: US/10/621,911

TIME: 11:03:32

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\08202004\J621911.raw

L:129	M:332	Ε:	(32)	Inva	alid	d/Miss:	ing Ami	ino Acid	Numbering	, SEÇ	D ID:	4
L:383	M:340	E:	(46)	"n"	or	"Xaa"	used:	Feature	required,	for	SEQ	ID#:7
L:384	M:340	E:	(46)	"n"	or	"Xaa"	used:	Feature	required,	for	SEQ	ID#:7
L:385	M:340	<b>E</b> :	(46)	"n"	or	"Xaa"	used:	Feature	required,	for	SEQ	ID#:7
L:429	M:340	<b>E</b> :	(46)	"n"	or	"Xaa"	used:	Feature	required,	for	SEQ	ID#:8